

	Type	L #	Hits	Search Text	DBs	Time Stamp
1	BRS	L1	16 ✓	(preamplifier) near5 (fet or (field adj effect adj transistor)) near5 (capacitor)	USPAT	2004/04/ 06 10:29
2	BRS	L5	0	(mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) same (preamplifier) same (fet or (field adj effect adj transistor)) same (capacitor)	USPAT	2004/04/ 06 10:28
3	BRS	L6	3 ✓	(mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) same (preamplifier) same (fet or (field adj effect adj transistor)) and (capacitor)	USPAT	2004/04/ 06 10:28 *
4	BRS	L7	27	(mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) same (preamplifier) and (fet or (field adj effect adj transistor)) and (capacitor)	USPAT	2004/04/ 06 10:28
5	BRS	L8	69 ✓	(mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) and (preamplifier) and (fet or (field adj effect adj transistor)) and (capacitor)	USPAT	2004/04/ 06 10:52
6	BRS	L9	379	(preamplifier) and ((fet or (field adj effect adj transistor)) near5 (capacitor))	USPAT	2004/04/ 06 10:29
7	BRS	L11	30 ✓	(360/.ccls.) and 8	USPAT	2004/04/ 06 10:50 *
8	BRS	L12	25 ✓	(360/.ccls.) and 9	USPAT	2004/04/ 06 10:29
9	BRS	L13	20 ✓	Stephen near Jove	USPAT	2004/04/ 06 10:31
10	BRS	L14	15 ✓	Wayne near Cheung	USPAT	2004/04/ 06 10:32

	Type	L #	Hits	Search Text	DBs	Time Stamp
11	BRS	L18	0	(360/\$.ccls.) and (((preamplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))) same (filter\$3 near3 (frequency and noise)) and (gain near5 (FET or (field adj effect adj transistor))) and (((reduc\$3 or decreas\$3) adj noise) near5 (increas\$3 adj bandwidth)) same (control\$4 near5 ((feed\$3 adj back) or feedback))) and (MR or magnetoresistive or (magneto adj1resistive) or magneto-resistive))	USPAT	2004/04/06 10:46
12	BRS	L19	0	(((preamplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))) same (filter\$3 near3 (frequency and noise)) and (gain near5 (FET or (field adj effect adj transistor))) and (((reduc\$3 or decreas\$3) adj noise) near5 (increas\$3 adj bandwidth)) same (control\$4 near5 ((feed\$3 adj back) or feedback))) and (MR or magnetoresistive or (magneto adj1resistive) or magneto-resistive))	USPAT	2004/04/06 10:47

	Type	L #	Hits	Search Text	DBs	Time Stamp
13	BRS	L20	0	((preamplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))) same (filter\$3 near3 (frequency and noise)) and (gain near5 (FET or (field adj effect adj transistor))) and (((reduc\$3 or decreas\$3) adj noise) near5 (increas\$3 adj bandwidth)) same (control\$4 near5 ((feed\$3 adj back) or feedback))	USPAT	2004/04/06 10:48
14	BRS	L21	0	(360/\$.ccls.) and (((amplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))) same (filter\$3 near3 (frequency and noise)) and (gain near5 (FET or (field adj effect adj transistor))) and (((reduc\$3 or decreas\$3) adj noise) near5 (increas\$3 adj bandwidth)) same (control\$4 near5 ((feed\$3 adj back) or feedback)))	USPAT	2004/04/06 10:48
15	BRS	L22	0	((amplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))) same (filter\$3 near3 (frequency and noise)) and (gain near5 (FET or (field adj effect adj transistor))) and (((reduc\$3 or decreas\$3) adj noise) near5 (increas\$3 adj bandwidth)) same (control\$4 near5 ((feed\$3 adj back) or feedback))	USPAT	2004/04/06 10:48

	Type	L #	Hits	Search Text	DBs	Time Stamp
16	BRS	L23	0	((amplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))) same (filter\$3 near3 (frequency and noise)) and (gain near5 (FET or (field adj effect adj transistor))) and (((reduc\$3 or decreas\$3) adj noise) near5 (increas\$3 adj bandwidth))	USPAT	2004/04/06 10:48
17	BRS	L24	229	((amplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))) same (filter\$3 near3 frequency)	USPAT	2004/04/06 10:49
18	BRS	L25	7	((amplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))) same (filter\$3 near3 (frequency and noise))	USPAT	2004/04/06 10:49
19	BRS	L26	0	((amplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))) same (filter\$3 near3 (frequency and noise)) and (gain near5 (FET or (field adj effect adj transistor)))	USPAT	2004/04/06 10:49
20	BRS	L27	194	((360/.ccls.) and ((amplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))))	USPAT	2004/04/06 10:51
21	BRS	L28	36	((amplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))) same (mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive))	USPAT	2004/04/06 10:51 *
22	BRS	L29	22	((360/.ccls.) and 28	USPAT	2004/04/06 10:51

	Type	L #	Hits	Search Text	DBs	Time Stamp
23	BRS	L30	0	(mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) and (preamplifier) and (fet or (field adj effect adj transistor)) and (capacitor)	EPO	2004/04/06 10:52
24	BRS	L31	0	(mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) and (preamplifier) and (fet or (field adj effect adj transistor)) and (capacitor)	JPO	2004/04/06 10:52
25	BRS	L32	0	(mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) and (preamplifier) and (fet or (field adj effect adj transistor)) and (capacitor)	DERWENT	2004/04/06 10:55
26	BRS	L33	3	(mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) and (preamplifier) and (fet or (field adj effect adj transistor)) and (capacitor)	IBM_T DB	2004/04/06 10:53
27	BRS	L34	1	(low adj1 noise) near10 ((MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) adj (sensor or head)) same (pre-amplifier or preamplifier or amplifier)	IBM_T DB	2004/04/06 10:55
28	BRS	L35	2	(low adj1 noise) near10 ((MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) adj (sensor or head)) same (pre-amplifier or preamplifier or amplifier)	DERWENT	2004/04/06 10:55

	Type	L #	Hits	Search Text	DBs	Time Stamp
29	BRS	L36	0	(low adj1 noise) near10 ((MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) adj (sensor or head)) same (pre-amplifier or preamplifier or amplifier)	JPO	2004/04/06 10:55
30	BRS	L37	1	(low adj1 noise) near10 ((MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) adj (sensor or head)) same (pre-amplifier or preamplifier or amplifier)	EPO	2004/04/06 10:55
31	BRS	L38	0	(low adj1 noise) near10 ((MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) adj (sensor or head)) same (pre-amplifier or preamplifier or amplifier)	US-PG PUB	2004/04/06 10:55
32	BRS	L39	19	(low adj1 noise) near10 ((MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) adj (sensor or head)) same (pre-amplifier or preamplifier or amplifier)	USPAT	2004/04/06 10:55
33	BRS	L40	23	(mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) and (preamplifier) and (fet or (field adj effect adj transistor)) and (capacitor)	US-PG PUB	2004/04/06 10:55

Type	L #	Hits	Search Text	DBs	Time Stamp	Comments	Error Definition
44	BRS	L5840 ✓	(FET or (field effect adj transistor)) near5 ((dimension adj ratio) or (width/length))	USPAT	2004/04/06 15:43		0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Components	Error Definition
32	BRS	L41	0	((ac adj coupl\$3) or (alternat\$3 adj current adj coupl\$3)) near10 (MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) near10 ((enlarg\$3 or big\$3) adj (fet or (field adj effect adj transistor)))	USPAT	2004/04/06 13:46		0
33	BRS	L42	0	((ac adj coupl\$3) or (alternat\$3 adj current adj coupl\$3)) and (MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) and ((enlarg\$3 or big\$3) adj (fet or (field adj effect adj transistor)))	USPAT	2004/04/06 13:47		0
34	BRS	L43	10 ✓	((ac adj coupl\$3) or (alternat\$3 adj current adj coupl\$3)) and (MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) and ((fet or (field adj effect adj transistor)))	USPAT	2004/04/06 13:47		0
35	BRS	L44	4 ✓	((ac adj coupl\$3) or (alternat\$3 adj current adj coupl\$3)) and (MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) and (noise near5 (minimiz\$3 or reduc\$4 or decreas\$3)) and (bias\$3 near6 gain)	USPAT	2004/04/06 13:50		0

	Type	L #	Hits	Search Text	DBs	Time Stamp	Components	Error Definiton
36	BRS	L45	9 ✓	((ac adj coupl\$3) or (alternat\$3 adj current adj coupl\$3)) and (MR or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) and (noise near5 (minimiz\$3 or reduc\$4 or decreas\$3)) and ((feedback or (feeding adj back)) near6 gain)	USPAT	2004/04/06 13:51		0
39	BRS	L46	1 ✓	5323278.pn.	USPAT	2004/04/06 14:55		0
40	BRS	L47	1 ✓	5856891.pn.	USPAT	2004/04/06 14:50		0
41	BRS	L48	1 ✓	6532127.pn.	USPAT	2004/04/06 14:51		0
42	BRS	L50	8 ✓	("6175462" "5323278" "5204789" "5103353" "5032935" "4879610" "4786993" "4706138").pn.	USPAT	2004/04/06 14:58		0
43	BRS	L54	13 ✓	(mr or magnetoresistive or magneto-resistive or (magneto adj1 resistive)) near8 (((low adj1 noise) or low-noise) adj (pre-amplifier or preamplifier or (pre adj1 amplifier)))	USPAT	2004/04/06 15:00		0

	Type	Hits	Search Text	DBs	Time Stamp
1	BRS	7 ✓	("6134060" "6057972" "5831784" "5323278" "5270882" "5122915" "4635142").pn.	USPAT	2003/12/ 11 09:47
2	BRS	1 ✓	"20030128450"	US-PGPUB	2003/12/ 11 09:47
3	BRS	49	("4308504" "4533841" "4978925" "5978491" "6222397" "6222397" "4369410" "4489245" "4870618" "4872209" "5008858" "5264784" "5485119" "5680038" "5945842" "6124753" "6249176" "4247918" "4251829" "4260909" "4295061" "4394586" "4395644" "4397000" "4398100" "4415863" "4423369" "4570240" "4587446" "4602290" "4629998" "4630238"	USPAT	2004/04/ 05 15:31

	Type	Hits	Search Text	DBs	Time Stamp
4	BRS	0	(360/\$.ccls.) and ((4308504" "4533841" "4978925" "5978491" "6222397" "6222397" "4369410" "4489245" "4870618" "4872209" "5008858" "5264784" "5485119" "5680038" "5945842" "6124753" "6249176" "4247918" "4251829" "4260909" "4295061" "4394586" "4395644" "4397000" "4398100" "4415863" "4423369" "4570240" "4587446" "4602290" "4629998" "4630238"	USPAT	2004/04/ 06 10:29
5	BRS	7413	(amplifier) near5 ((ac adj1 coupl\$3) or ac-coupl\$3 or ac or (alternat\$3 adj current))	USPAT	2004/04/ 06 10:50

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Solid-State Circuits Conference, 1994. Digest of Technical Papers. 41st ISSCC., 1994 IEEE International , 16-18 Feb. 1994

Pages:252 - 253

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cmos<and>mr head

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#### 1 A 200 Mb/s CMOS EPRML channel with integrated servo demodulator for magnetic hard disks

Fields, J.; Aziz, P.; Bailey, J.; Barber, F.; Barner, J.; Burger, H.; Foster, R.; Heimann, M.; Kemps Mantz, L.; Mastroloca, A.; Peruzzi, R.; Peterson, T.; Raisighani, J.; Rauschmayer, R.; Saniski, M; Sayiner, N.; Setty, P.; Tedja, S.; Threadgill, K.; Fitzpatrick, K.K.; Fisher, K.; Solid-State Circuits Conference, 1997. Digest of Technical Papers. 44th ISSCC., 1997 IEEE International , 6-8 Feb. 1997  
Pages:314 - 315, 477

[\[Abstract\]](#) [\[PDF Full-Text \(1128 KB\)\]](#) [IEEE CNF](#)

#### 2 A 0.8 nV / √Hz CMOS preamplifier for magneto-resistive read elements

Robinson, M.E.; Klein, H.W.; Palla, S.; Chung, T.-S.; Solid-State Circuits Conference, 1994. Digest of Technical Papers. 41st ISSCC., 1994 IEEE International , 16-18 Feb. 1994  
Pages:252 - 253

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low noise<and>mr head

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#### 1 Development of high resolution and low noise single-layered perpendicular recording for high density recording

Hirayama, Y.; Futamoto, M.; Ito, K.; Honda, Y.; Maruyama, Y.;  
Magnetics, IEEE Transactions on , Volume: 33 , Issue: 1 , Jan. 1997  
Pages:996 - 1001

[\[Abstract\]](#) [\[PDF Full-Text \(928 KB\)\]](#) IEEE JNL

#### 2 A recording at a channel rate of 200 Mbps in helical tape systems

Suzuki, K.; Fukuda, S.; Shirai, T.; Ozue, T.;  
Magnetics Conference, 2002. INTERMAG Europe 2002. Digest of Technical Papers. 2002 IEEE International , 28 April-2 May 2002  
Pages:AP1

[\[Abstract\]](#) [\[PDF Full-Text \(213 KB\)\]](#) IEEE CNF

#### 3 A measurement of signal-to-noise ratio versus trackwidth from 128 µm to 4 µm

Jeffers, F.; Wachenschwanz, D.; Phelps, D.; Freeman, J.;  
Magnetics, IEEE Transactions on , Volume: 23 , Issue: 5 , Sep 1987  
Pages:2088 - 2090

[\[Abstract\]](#) [\[PDF Full-Text \(376 KB\)\]](#) IEEE JNL

#### 4 A yoke magnetoresistive head for high track density recording

Maruyama, T.; Yamada, K.; Tanaka, H.; Ito, S.; Urai, H.; Kaneko, H.;  
Magnetics, IEEE Transactions on , Volume: 23 , Issue: 5 , Sep 1987  
Pages:2503 - 2505

[\[Abstract\]](#) [\[PDF Full-Text \(408 KB\)\]](#) IEEE JNL

#### 5 Low noise Co/Pd multilayer perpendicular media with granular seed layer

Ohmori, H.; Maesaka, A.;  
Magnetics, IEEE Transactions on , Volume: 36 , Issue: 5 , Sept 2000  
Pages:2384 - 2386

[\[Abstract\]](#) [\[PDF Full-Text \(100 KB\)\]](#) IEEE JNL

#### 6 Low noise Co-Cr-Nb perpendicular recording media with high squareness

Honda, N.; Ariake, J.; Ouchi, K.; Iwasaki, S.;  
Magnetics, IEEE Transactions on , Volume: 34 , Issue: 4 , July 1998  
Pages:1651 - 1653

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[\[Abstract\]](#) [\[PDF Full-Text \(300 KB\)\]](#) [IEEE JNL](#)

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**7 A 0.8 nV/ $\sqrt{\text{Hz}}$  CMOS preamplifier for magneto-resistive read elements**

*Robinson, M.E.; Klein, H.W.; Palla, S.; Chung, T.-S.;*  
Solid-State Circuits Conference, 1994. Digest of Technical Papers. 41st ISSCC., 1994 IEEE  
International , 16-18 Feb. 1994  
Pages:252 - 253

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 Check to search within this result set**Results Key:****JNL** = Journal or Magazine   **CNF** = Conference   **STD** = Standard**1 Read/write amplifier design considerations for MR heads**

Klaassen, K.B.; van Peppen, J.C.L.;  
Magnetics, IEEE Transactions on , Volume: 31 , Issue: 2 , Mar 1995  
Pages:1056 - 1061

[\[Abstract\]](#)   [\[PDF Full-Text \(544 KB\)\]](#)   **IEEE JNL****2 High Sensitivity, Accurate MMW Radiometers for Ground-Mapping Systems**

Day, W.B.; Kraemer, E.H.; Roeder, R.S.; Wilt, R.E.;  
Microwave Symposium Digest, MTT-S International , Volume: 82 , Issue: 1 , Jun 1982  
Pages:96 - 98

[\[Abstract\]](#)   [\[PDF Full-Text \(280 KB\)\]](#)   **IEEE CNF****3 Dynamic in-situ measurements of head-to-disk spacing**

Smith, G.J.;  
Magnetics, IEEE Transactions on , Volume: 35 , Issue: 5 , Sept. 1999  
Pages:2346 - 2351

[\[Abstract\]](#)   [\[PDF Full-Text \(528 KB\)\]](#)   **IEEE JNL****4 Modulation noise measurements of high density recording channels using MR heads**

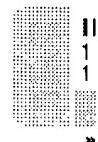
Wachenschwanz, D.; Carr, T.;  
Magnetics, IEEE Transactions on , Volume: 27 , Issue: 6 , Nov 1991  
Pages:5310 - 5312

[\[Abstract\]](#)   [\[PDF Full-Text \(240 KB\)\]](#)   **IEEE JNL****5 A study of head stack assembly sensitivity to ESD**

Boone, W.; Himle, J.; Porter, T.; Perry, B.;  
Electrical Overstress/Electrostatic Discharge Symposium Proceedings, 1999 , 28-30 Sept. 1999  
Pages:373 - 379

[\[Abstract\]](#)   [\[PDF Full-Text \(456 KB\)\]](#)   **IEEE CNF****6 A 0.8 nV/√Hz CMOS preamplifier for magneto-resistive read elements**

Robinson, M.E.; Klein, H.W.; Palla, S.; Chung, T.-S.;  
Solid-State Circuits Conference, 1994. Digest of Technical Papers. 41st ISSCC., 1994 IEEE  
International , 16-18 Feb. 1994  
Pages:252 - 253



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Application#	Patent#	Status	Date Filed	Title	Inventor Name 17
<a href="#">10289076</a>	Not Issued	030	11/06/2002	METHOD AND APPARATUS FOR PROVIDING MATCHED DIFFERENTIAL MR BIASING AND PRE-AMPLIFICATION	CHEUNG, WAYNE LEUNG
<a href="#">10041796</a>	Not Issued	030	01/07/2002	CMOS LOW-NOISE MR READ HEAD PRE-AMPLIFIER CIRCUIT	CHEUNG, WAYNE L.
<a href="#">09246513</a>	<a href="#">6393511</a>	150	02/09/1999	MULTI-TRACK DENSITY DIRECT ACCESS STORAGE DEVICE	CHEUNG , WAYNE LEUNG
<a href="#">09088412</a>	<a href="#">6070225</a>	150	06/01/1998	METHOD AND APPARATUS FOR OPTIMIZING ACCESS TO CODED INDICIA HIERARCHICALLY STORED ON AT LEAST ONE SURFACE OF A CYCLIC, MULTITRACKED RECORDING DEVICE	CHEUNG , WAYNE
<a href="#">08938267</a>	<a href="#">6324030</a>	150	09/26/1997	DIGITAL PES DEMODULATION FOR A DISK DRIVE SERVO CONTROL SYSTEM USING SYNCHRONOUS DIGITAL SAMPLING	CHEUNG , WAYNE LEUNG
<a href="#">08918959</a>	<a href="#">5818659</a>	150	08/26/1997	QUADRATURE SERVO PATTERN DISK PROVIDING ASYNCHRONOUS DIGITAL PES	CHEUNG , WAYNE LEUNG
<a href="#">08908743</a>	<a href="#">5966264</a>	150	08/07/1997	TWO FREQUENCY SERVO PES PATTERN	CHEUNG , WAYNE LEUNG
<a href="#">08908742</a>	<a href="#">6025970</a>	150	08/07/1997	DIGITAL DEMODULATION OF A COMPLEMENTARY TWO-FREQUENCY SERVO PES PATTERN	CHEUNG , WAYNE L.
<a href="#">08908725</a>	<a href="#">6456449</a>	150	08/07/1997	DISK DRIVE WITH WIDE SERVO BURST PATTERN AND WIDE SERVO SENSING ELEMENT	CHEUNG , WAYNE LEUNG
<a href="#">08709204</a>	<a href="#">5999351</a>	150	08/27/1996	MULTI-TRACK DENSITY DIRECT ACCESS STORAGE DEVICE	CHEUNG , WAYNE L.
<a href="#">08628217</a>	<a href="#">5825579</a>	150	04/04/1996	DISK DRIVE SERVO SENSING GAIN NORMALIZATION AND LINEARIZATION	CHEUNG , WAYNE L.
<a href="#">08599534</a>	<a href="#">5774298</a>	150	02/06/1996	ASYNCHRONOUS DIGITAL PES DEMODULATION DISK DRIVE SERVO CONTROL SYSTEM	CHEUNG , WAYNE L.
<a href="#">08432627</a>	Not Issued	166	05/02/1995	QUADRATURE SERVO PATTERNS DISK PROVIDING ASYNCHRONOUS DIGITAL PES	CHEUNG , WAYNE L.

<u>08376962</u>	<u>5717538</u>	250	01/20/1995	ASYNCHRONOUS POSITION ERROR SIGNAL DETECTOR EMPLOYING WEIGHTED ACCUMULATION FOR USE IN SERVO SYSTEM	CHEUNG , WAYNE L.
<u>08317942</u>	<u>5615065</u>	150	10/04/1994	PHASE-COMPENSATED SERVO PATTERN AND POSITION ERROR-SENSING DETECTOR	CHEUNG , WAYNE L.
<u>08156531</u>	Not Issued	166	11/23/1993	ASYNCHRONOUS DIGITAL PES DEMODULATION DISK DRIVE SERVO CONTROL SYSTEM	CHEUNG , WAYNE L.
<u>08148791</u>	<u>5442498</u>	150	11/08/1993	ASYNCHRONOUS TRACK CODE ENCODEMENT AND DETECTION FOR DISK DRIVE SERVO CONTROL SYSTEM	CHEUNG , WAYNE L.

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Application#	Patent#	Status	Date Filed	Title
<a href="#">10289076</a>	Not Issued	030	11/06/2002	METHOD AND APPARATUS FOR PROVIDING MATCHED DIFFERENTIAL MR BIASING AND PRE-AMPLIFICATION
<a href="#">10288720</a>	Not Issued	030	11/05/2002	METHOD AND APPARATUS FOR PROVIDING QUADRATURE BIASING FOR COUPLED-PAIR CIRCUITS
<a href="#">10284811</a>	Not Issued	030	10/31/2002	PREAMPLIFIER CIRCUIT SUITABLE FOR USE IN MAGNETIC STORAGE DEVICES
<a href="#">10041796</a>	Not Issued	030	01/07/2002	CMOS LOW-NOISE MR READ HEAD PRE-AMPLIFIER CIRCUIT
<a href="#">09947741</a>	Not Issued	030	09/06/2001	METHODS AND APPARATUS FOR GRADUALLY DECREASING SUPPLY CURRENT DEMAND IN ARM ELECTRONICS FOR WRITE-TO-READ TRANSITIONS
<a href="#">09300653</a>	6265905	150	04/27/1999	QUASI-VOLTAGE SENSING INPUT IMPEDANCE CONTROLLED PREAMPLIFIER FOR MAGNETORESISTIVE ELEMENTS
<a href="#">09300564</a>	6420910	150	04/27/1999	QUASI-CURRENT SENSING INPUT IMPEDANCE CONTROLLED PREAMPLIFIER FOR MAGNETORESISTIVE ELEMENTS
<a href="#">09258022</a>	6252735	150	02/25/1999	VOLTAGE-BIASING, VOLTAGE-SENSING DIFFERENTIAL PREAMPLIFIER FOR MAGNETORESISTIVE ELEMENTS
<a href="#">09246990</a>	6271977	150	02/16/1999	A MULTI-STATE PREAMPLIFIER FOR DISK DRIVES
<a href="#">08970660</a>	6175462	150	11/14/1997	HIGH INPUT IMPEDANCE SINGLE ENDED, LOW SUPPLY VOLTAGE MAGNETORESISTIVE PREAMPLIFIER CIRCUITS
<a href="#">08594093</a>	Not Issued	162	01/30/1996	HIGH-TRANSITION-RATE, LOW-SUPPLY VOLTAGE WRITE DRIVE CIRCUITRY FOR MAGNETIC INDUCTIVE WRITE HEAD
<a href="#">08336611</a>	5523898	150	11/08/1994	PARTIAL MR SENSOR BIAS CURRENT DURING

				WRITE	
07958635	5296975	150	10/09/1992	HIGH TRANSITION-RATE, LOW-SUPPLY-VOLTAGE WRITE DRIVER CIRCUITRY FOR MAGNETIC INDUCTIVE WRITE HEAD	JOVE , STEPHEN A.
07946208	<u>5323278</u>	250	09/17/1992	LOW NOISE AMPLIFIER CIRCUIT FOR MAGNETORESISTIVE SENSORS FOR FAST READ - WRITE SWITCHING IN LOW SUPPLY VOLTAGE APPLICATIONS	JOVE , STEPHEN A.
07914278	5270882	150	07/15/1992	LOW-VOLTAGE, LOW-POWER AMPLIFIER FOR MAGNETORESISTIVE SENSOR	JOVE , STEPHEN A.
07835153	<u>5287340</u>	150	02/13/1992	DIFFERENTIAL AMPLIFIER FOR OPTICAL DETECTORS IN AN OPTICAL DATA STORAGE SYSTEM	JOVE , STEPHEN A.
07648675	5204789	150	01/31/1991	LOW NOISE VOLTAGE-BIASING AMPLIFIER FOR MAGNETORESISTIVE ELEMENT	JOVE , STEPHEN A.
07517093	<u>5103353</u>	150	05/01/1990	LOW NOISE AMPLIFIER WITH SHORT CIRCUIT PROTECTION FOR SIGNALS FROM MAGNETORESISTIVE ELEMENT	JOVE , STEPHEN A.
07468526	<u>5057785</u>	250	01/23/1990	METHOD AND CIRCUITRY TO SUPPRESS ADDITIVE DISTURBANCES IN DATA CHANNELS	JOVE , STEPHEN A.
07449686	<u>5032935</u>	150	12/12/1989	AMPLIFICATION OF SIGNALS PRODUCED BY A MAGNETORESISTIVE ELEMENT	JOVE , STEPHEN A.
07250784	<u>4879610</u>	150	09/28/1988	PROJECTIVE CIRCUIT FOR A MAGNETORESISTIVE ELEMENT	JOVE , STEPHEN A.
07226634	<u>4914398</u>	150	08/01/1988	METHOD AND CIRCUITRY TO SUPPRESS ADDITIVE DISTURBANCES IN DATA CHANNELS CONTAINING MR SENSORS	JOVE , STEPHEN A.
06923777	<u>4743861</u>	150	10/27/1986	FREQUENCY RESPONSE COMPENSATION CIRCUIT	JOVE , STEPHEN A.
06880419	<u>4786993</u>	150	06/30/1986	VOLTAGE AMPLIFIER FOR CONSTANT VOLTAGE BIASING AND AMPLIFYING SIGNALS FROM A MR SENSOR	JOVE , STEPHEN A.
06851649	<u>4706138</u>	150	04/14/1986	AMPLIFICATION OF SIGNALS PRODUCED BY A MAGNETIC SENSOR	JOVE , STEPHEN A.
06325711	<u>4420776</u>	150	11/30/1981	PSK MODULATION IN AC BIAS DATA RECORDING	JOVE , STEPHEN A.

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